

IN THE CLAIMS:

1. (currently amended) A method of controlling at least one transmission parameter of a connection between a transmitting station and receiving station in a communication system comprising:

receiving at the receiving station a transmission signal from the transmitting station;
determining from the received transmission signal whether there exists a power up requirement or a power down requirement;

monitoring the distribution of the power up and power down requirements over a period of time; and

in the event that a predefined form of the distribution is detected, changing a quality target for the received signal.

2. (original) A method in accordance with claim 1, comprising changing the power level of the transmission.

3. (previously amended) A method in accordance with claim 1, further comprising;

transmitting power control commands between the transmitting station and the receiving station, said power control commands including either the power up or the power down request in accordance with the determined requirement, wherein the step of monitoring the distribution of the power up and the power down requirements comprises monitoring the requests derived from the power control commands.

4. (previously amended) A method in accordance with claim 1, wherein the form of the distribution of the power up and the power down requirements is defined on basis of variations in

a Signal Interference Ratio (SIR) target.

5. (previously amended) A method in accordance with claim 1, wherein the transmitting station is a base station of a mobile communication system and the receiving station is a mobile station.
6. (previously amended) A method in accordance with claim 1, wherein said determining of the power up requirement or power down requirement and said monitoring of the distribution are accomplished at the receiving station.
7. (previously amended) A method in accordance with claim 1, wherein said determining of the power up requirement or power down requirement is accomplished at the receiving station and said monitoring of the distribution is accomplished at the transmitting station.
8. (previously amended) A method in accordance with claim 1, wherein the step of changing the transmission parameter of the connection comprises returning the transmission parameter of the connection to a predefined value.
9. (previously amended) A method in accordance with claim 1, wherein at least some of control parameters used for controlling the transmission parameter of the connection are transmitted to the receiving and/or transmitting station using radio network apparatus.

10. (original) A method in accordance with claim 9, wherein the control parameters are defined in and/or control parameter updates are transmitted from a separate control unit.

11. (previously amended) A method in accordance with claim 1, comprising simultaneous use of at least two different sets of control parameters used for controlling the connection.

12. (currently amended) An arrangement for controlling at least one transmission parameter of a connection between a transmitting station and a receiving station in a communication system comprising:

a control unit for determining a power up requirement or a power down requirement from a signal transmitted from the transmitting station;

means for monitoring the distribution of the power up and power down requirements over a period of time; and

means for changing [[the]] a quality target of the transmission in the event that the means for monitoring detect a predefined form of distribution in the monitored distribution.

13. (original) An arrangement in accordance with claim 12, comprising means for changing the power level of the transmission.

14. (previously amended) An arrangement in accordance with claim 12, wherein the means for changing the transmission parameter of the connection are arranged to return the transmission

parameter to a predefined value.

15. (previously amended) An arrangement in accordance with claim 12, wherein the receiving station comprises the control unit, the means for monitoring distribution of the power up and the power down requirements and the means for changing the transmission parameter.

16. (previously amended) An arrangement in accordance with claim 12, wherein the transmitting station is a base station and the receiving station is a mobile station.

17. (currently amended) A receiving station for use in a communication system, comprising:
means for receiving a signal from a transmitting station;
a control unit for determining a power up requirement or a power down requirement;
means for monitoring the distribution of the power up and power down requirements over a period of time; and
means for generating and transmitting a request for a change in a quality target to the transmitting station in the event that the means for monitoring detect a predefined form of distribution in the monitored distribution.